

TIONG WEI JIE

AI Engineer

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CAREER OBJECTIVE

Recent Computer Science graduate and Software Engineer Intern with hands-on experience building Retrieval-Augmented Generation (RAG) systems, vector search, and full-stack AI applications. Seeking an AI Engineer role to apply skills in Python, FastAPI, LLM integration, and vector databases to design, build, and deploy production-ready intelligent business applications.

TECHNICAL SKILLS

Programming: Python, JavaScript, C#, SQL

AI / ML: RAG (Retrieval-Augmented Generation), LLM Integration, Vector Databases (Pinecone), Embeddings & Semantic Search, Prompt Engineering, PyTorch

Backend & APIs: FastAPI, ASP.NET MVC, REST API, SQL Server / Stored Procedures

Frontend: React, JavaScript, HTML, CSS

Tools & Workflow: Git / GitHub, RunPod (GPU Cloud), Model Context Protocol (MCP)

Languages: English, Chinese, Malay

WORKING EXPERIENCE

Software Engineer Intern

Feb 2026 – Aug 2026

SainoForce Technology Sdn. Bhd. — Kuala Lumpur

- **Built and secured a Retrieval-Augmented Generation (RAG) chatbot for HR advisory;** implemented role-based access control (RBAC) using SQL Server stored procedures to dynamically filter vector-database (Pinecone) retrieval by user role and company, enforcing multi-tenant data isolation.
- **Researched and tested candidate-matching approaches** to improve on the company's existing keyword search; prototyped a TF-IDF model (Python, FastAPI, scikit-learn), then adopted vector-embedding semantic search (Pinecone) for higher semantic accuracy.
- **Developed and debugged the recruitment and onboarding modules of HRMS 3.0 (ASP.NET MVC / C#),** including Recruitment Tracker, Dashboard, and Talent Pool features.
- **Upgraded resume intake from single- to batch-processing** with multi-file upload and AI-powered resume parsing (FastAPI).
- **Designed a 7-table onboarding database schema (SQL Server)** with an ERD (Entity-Relationship Diagram).
- **Built a small tool to automate repetitive data-cleaning tasks,** assisting the team lead in preparing and structuring the HR Advisory dataset.
- **Operated the RunPod GPU-cloud instance hosting the LLM-powered RAG chatbot,** starting the server on demand, deploying the latest code from GitHub, and shutting it down after use to manage GPU cost.

Online Education Mentor

Aug 2024 – Present

Chumbaka

- Delivered virtual mentorship, student guidance, and class management for STEM learners.

Technical Support

Nov 2022 – Jan 2023

ND Paper Malaysia (Selangor) Sdn. Bhd.

- Performed IT troubleshooting, system maintenance, and end-user support.

Intern, CRM Division

Mar 2022 – Jul 2022

Sarawak Information Systems Sdn. Bhd. — Service Management & Intelligence (SMI) Section

- Carried out web development and system testing.

EDUCATION

University of Technology Sarawak (UTS)

Feb 2023 – Aug 2025

Bachelor of Computer Science — CGPA 3.53

- Final Year Project: AI Customer Service Chatbot — an intelligent support system for Traditional Chinese Medicine clinics, built using a RAG architecture.

Politeknik Mukah Sarawak

Feb 2019 – Aug 2022

Diploma in Information Technology (Digital Technology) — CGPA 3.91

- Final Year Project: Greening Bookplanet — a secondhand book trading website.

CERTIFICATIONS

- **Develop Generative AI Applications: Get Started** — IBM (Coursera), 2026.
- **Google AI Essentials (5-course Specialization)** — Google (Coursera), 2026.
- **Foundations of Project Management** — Google (Coursera), 2026.

KEY ACHIEVEMENTS

- **Mitsubishi Corporation International Scholarship:** selected as one of only 5 recipients university-wide at UTS, recognizing academic excellence and leadership potential.
- **Champion (2024 & 2025), SMD IC Design Make-A-Thon:** secured back-to-back championships in the Sibu regional challenge.
- **Web Development:** designed and developed the landing page for the Roboclash Challenge 2025.
- **Academic Honors:** maintained a high CGPA (Bachelor's 3.53, Diploma 3.91) and achieved Dean's List standing.
- **Vice President, UTS Mandarin Club:** organized Chinese cultural activities fostering cross-cultural appreciation across the university community.
- **STEM Outreach Volunteer:** promoted STEM education to primary and secondary school students through interactive activities.

REFERENCES

Ts. Dr Gary Loh Chee Wyai — Industrial Training Coordinator, UTS | 084-367432 | gary@uts.edu.my

Eileen Ong Sing Ling — Senior Lecturer, UTS | 084-367560 | eileenong@uts.edu.my